Linnæus University

Course syllabus

Faculty Board of Science and Engineering
School of Engineering

2SE020 Fallstudie I, 7,5 högskolepoäng
Case study I, 7.5 credits

Main field of study
Total Quality Maintenance

Subject Group
Industrial Engineering and Management

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved by Organisational Committee 2009-07-24

The course syllabus is valid from spring semester 2010

Prerequisites
Basic eligibility as well as knowledge corresponding to Production Process Organisation 7,5 hp, Quality Management 7,5 hp, Facilities Planning and Production Management 7,5 hp, Cost Analysis 7,5 hp and Maintenance Planning 7,5 hp.

Expected learning outcomes

After completing the course the student is expected to be able to

• understand and evaluate the effects of integrating company-close activity fields such as quality, operation, maintenance, logistics and economics
• account for and understand relevant concepts, tools and methods for the integration of these activity fields with respect to maintenance
• use concepts, methods and tools to manage company activities with regard to maintenance and its role in the company economy

Content

The course comprises the following elements:
• Integration in manufacturing companies
• Cooperation between (and its mechanisms in) different activity fields of manufacturing companies
• Methods for analyzing company activities
• A systematic work method for calculating the economic

effectiveness of maintenance work on quality, production, the value of the spare parts inventory, insurance, etc.

Type of Instruction

The teaching consists of lectures, group work, seminars, assignments and a case study.

Examination

The course is assessed with the grades U,3,4 or 5.
The examination is based on submitted reports and oral or written presentation of compulsory assignments.

Course Evaluation

When the course has finished, an evaluation is compiled. The results are reported to the students and then archived according to the rules of the school.

Other

Some elements of the course may entail costs defrayed by the course participant. The course language is English if international students attend the course.

Required Reading and Additional Study Material

Required reading

Al-Najjar Basim. "Economic importance of maintenance planning when using vibration-based maintenance policy" (compendium) 100 p. (100)

Current scientific articles